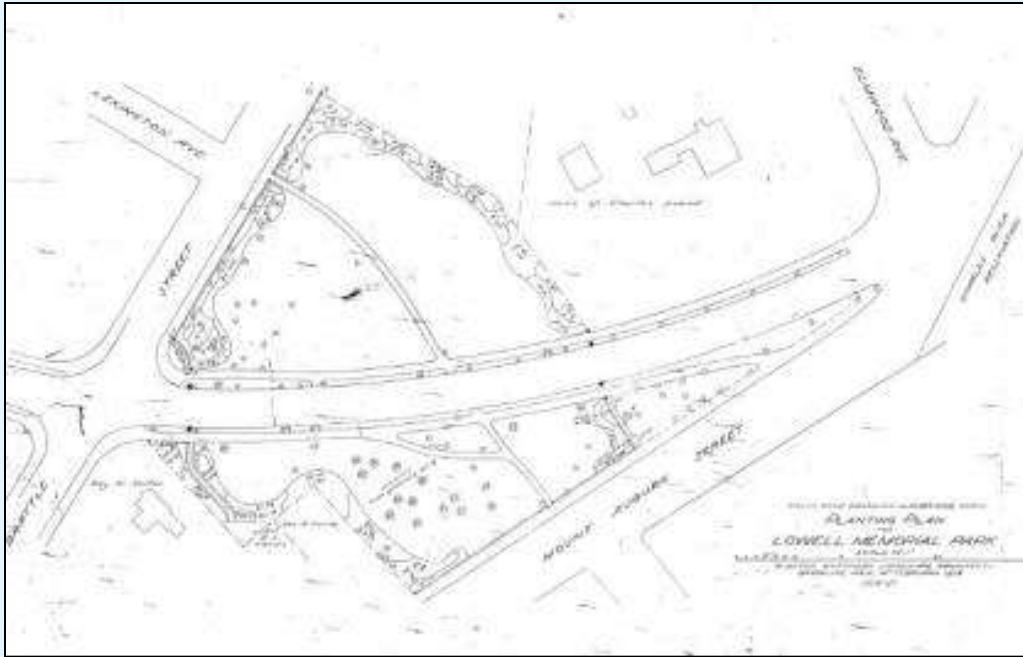


Lowell Memorial Park Historic Wall Repairs

February 10, 2016





Commonwealth of Massachusetts

Governor

Charles D. Baker

Lt Governor

Karyn E. Polito

Energy and Environmental Secretary

Matthew A. Beaton

Department of Conservation and Recreation Commissioner

Leo Pierre Roy



DCR Mission

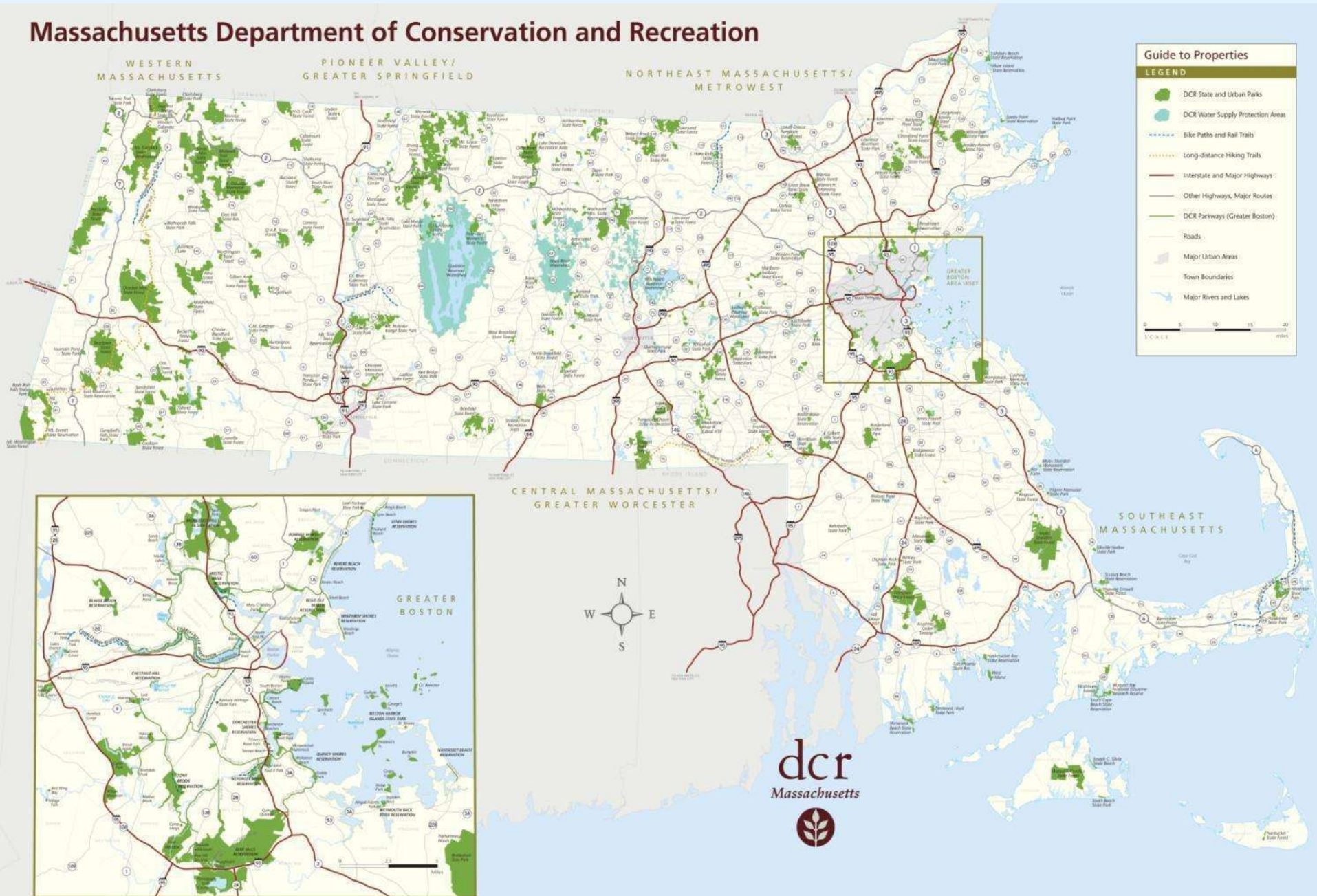
*To protect, promote and enhance
our common wealth of natural,
cultural and recreational resources
for the well-being of all.*

Purpose of the Meeting

- Information on plans to repair walls
- Project includes walls in northern section of Lowell Memorial Park
- Walls in southern section are not included, but will be part of a future phase of work



Massachusetts Department of Conservation and Recreation





Waverley Oaks, Waltham (1896) courtesy DCR Archives

6669

1896

What is Lowell Memorial Park?



Elmwood



Early Metropolitan Park



Olmsted Brothers design

What is Lowell Memorial Park?

Historic Site



Elmwood

- Oliver
- Gerry
- Lowell

National Historic Landmark



From 1877 City of Cambridge map, Franklin View Co.
(Courtesy Norman B. Leventhal Map Center at the
Boston Public Library)

What is Lowell Memorial Park?

Memorial to
James Russell Lowell
(1819-1891)

- Fireside Poet
- Abolitionist
- Ambassador



What is Lowell Memorial Park?

Part of Nation's First Regional Park System

- Metropolitan Park System of Greater Boston
- National Register of Historic Places



1900 Atlas of Middlesex Co.
(Courtesy of Cambridge Historical Commission)



Work of a noted designer – The Olmsted Brothers



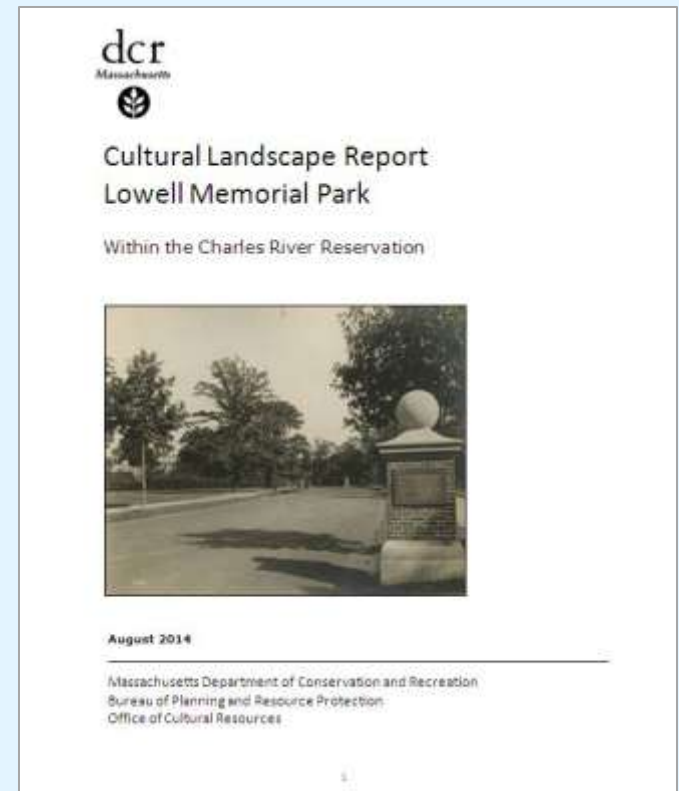
Project Background

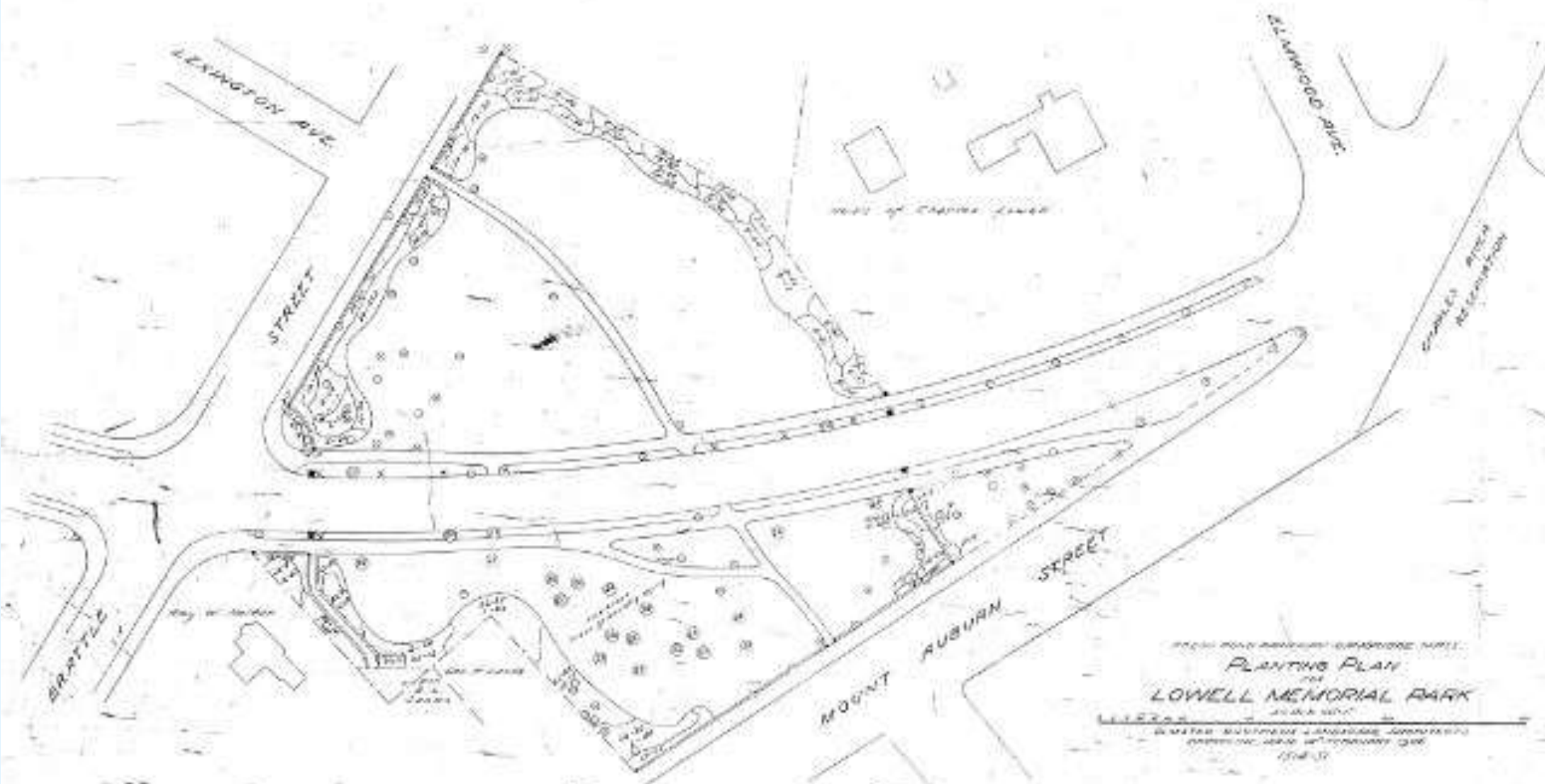
- 2012 DCR listening session
- 2014 Public Meeting
 - Cultural landscape Report
 - Wall Assessment
- 2015 Mt Auburn/Fresh Pond Parkway Traffic Study



Planning Context

- Plan to rehabilitate entire park landscape
- Wall Repair is high priority recommendation in CLR
 - Current project – North
 - Future phase – South
- Work in Big Lowell unaffected by traffic study





Existing Conditions



Preservation Treatment

- Rehabilitation
acknowledges the need to alter or add to a historic property to meet continuing or changing uses while retaining the property's historic character.
- *Secretary of the Interior's Standards for the Treatment of Historic Properties*



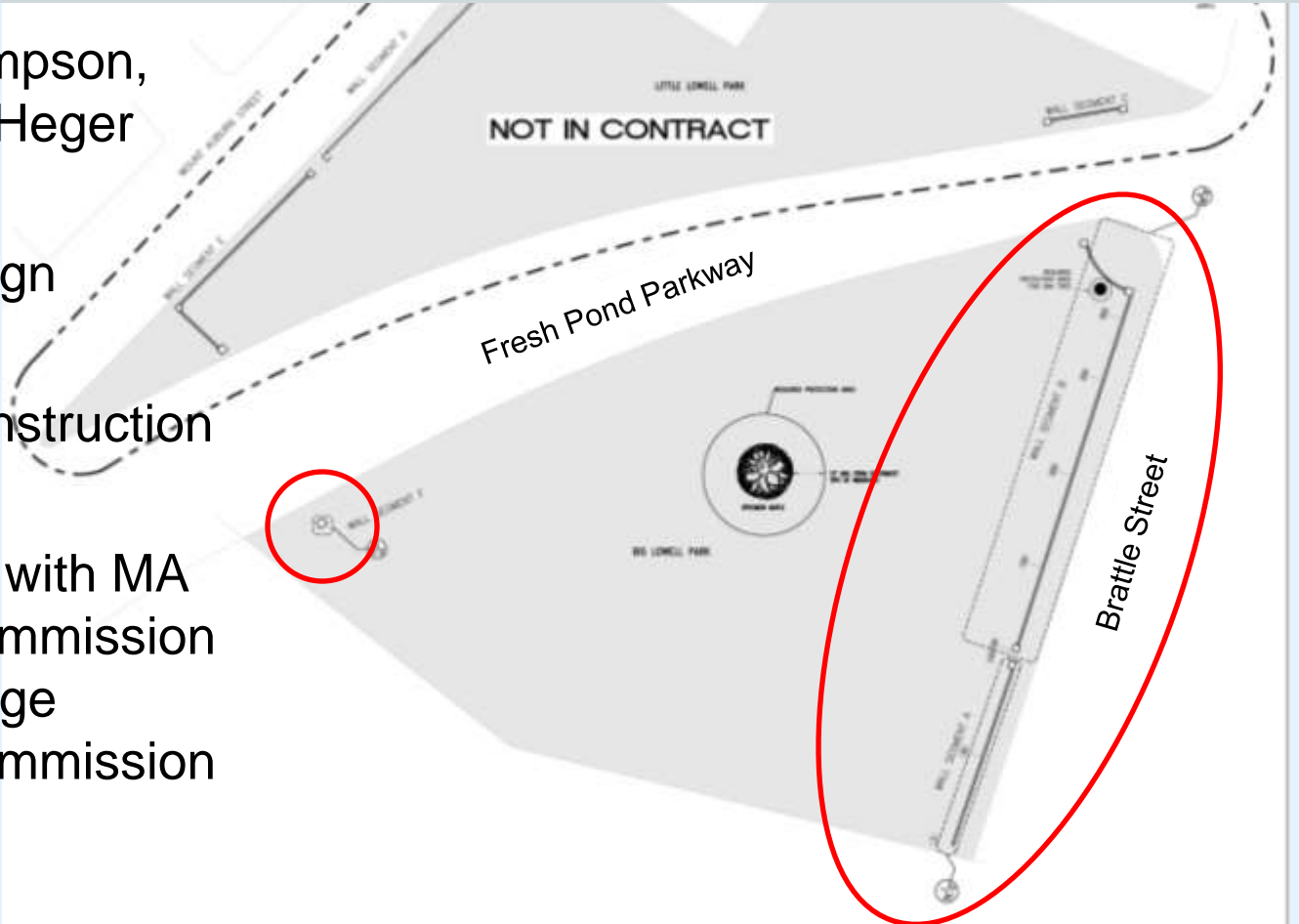
Priority Recommendations

- Brick Walls and Posts
- Vegetation
- Circulation
- Site Amenities
- Signage
- Interpretation



Wall Repair Project

- Architect: Simpson, Gumpertz & Heger
- \$30,000 design
- \$150,000 construction
- Consultation with MA Historical Commission and Cambridge Historical Commission



Tree Removals

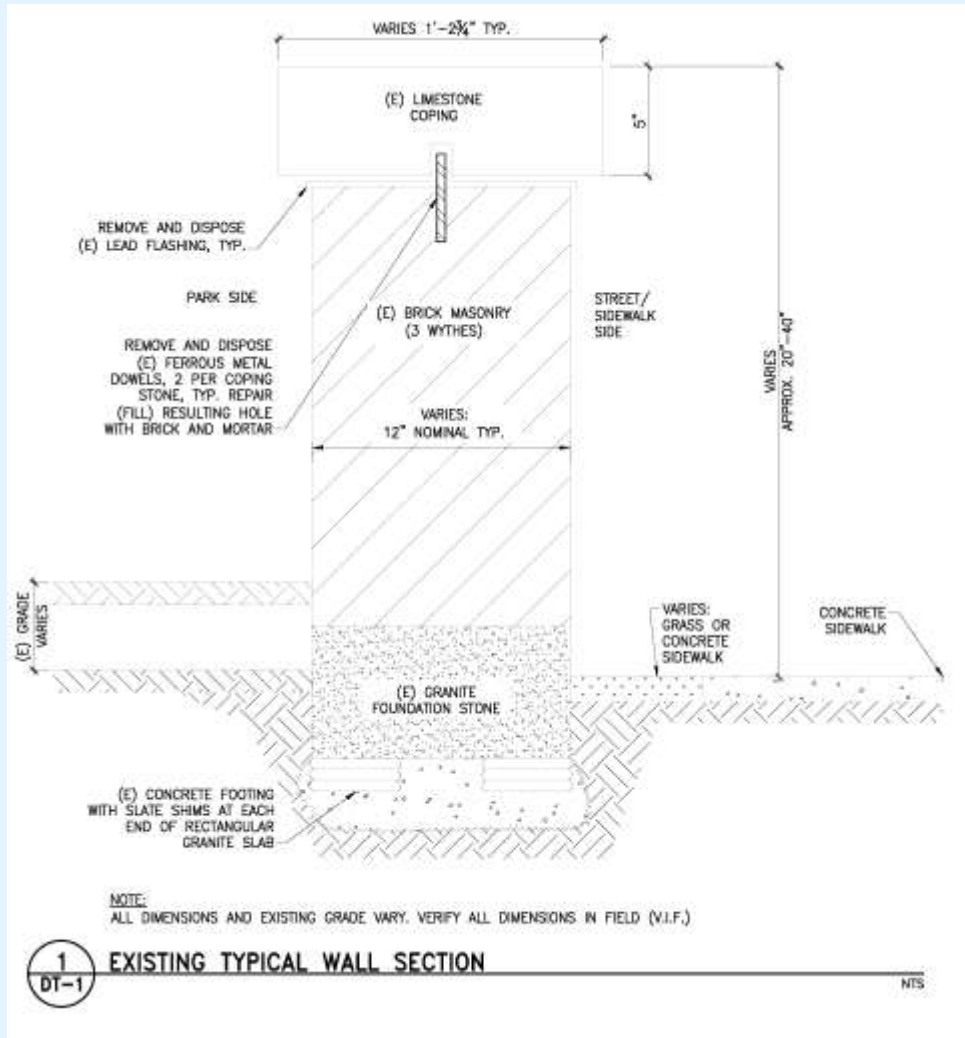
- Roots impacting walls
- Self seeded, invasive
- Not part of Olmsted plan
- Opens historic views



Yews to be removed by DCR before work starts



Existing Wall Construction

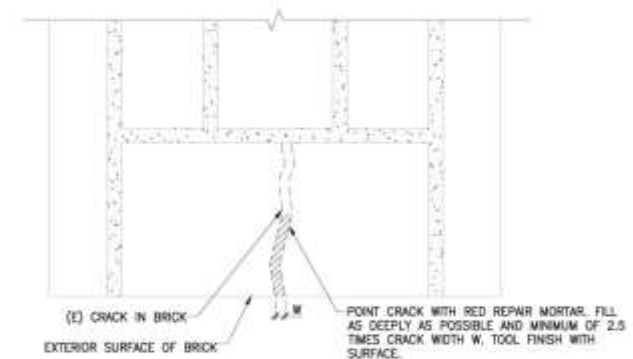


Overall Wall Treatment

- Clean, repoint wall
- Replace broken bricks/Repair cracks
- Rebuild – Partial and Full
- Stabilize Tree Cut Outs
- Repair coping stones
- Reset coping stones
- Remove graffiti
- Reset dropped foundations
- Re-establish grade



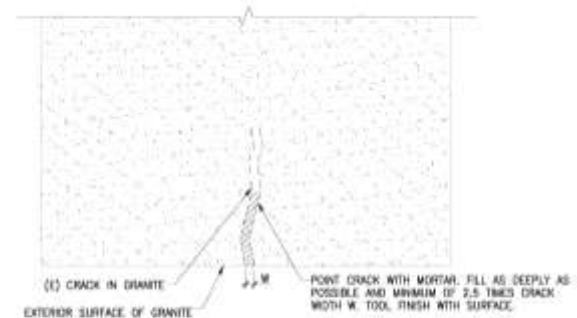
Replace Bricks/Repair Cracks



3
DT-1

PARTIAL PLAN: TYPICAL BRICK CRACK REPAIR

NTS



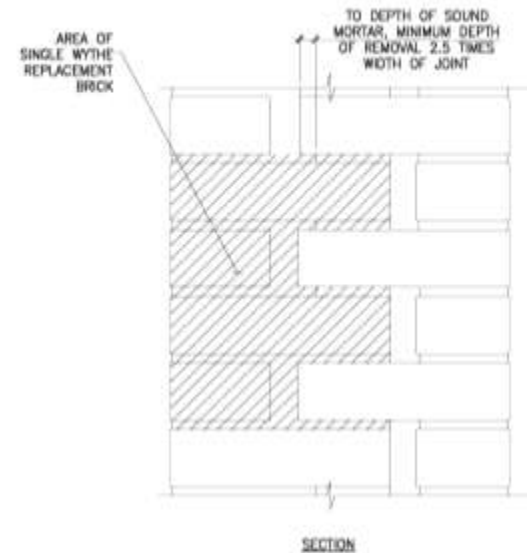
NOTES:
1. FOR FULL DEPTH CRACKS (VISIBLE ON BOTH SIDES OF FOUNDATION STONE), REPAIR FROM BOTH SIDES.
2. CRUSH PEDE OF EXCESS GRANITE TO MAX. $\frac{1}{8}$ IN. PARTICLES AND APPLY TO SURFACE OF MORTAR.

6
DT-1

PARTIAL PLAN: TYPICAL GRANITE CRACK REPAIR

NTS

Partial Rebuild



REPAIR NOTES:

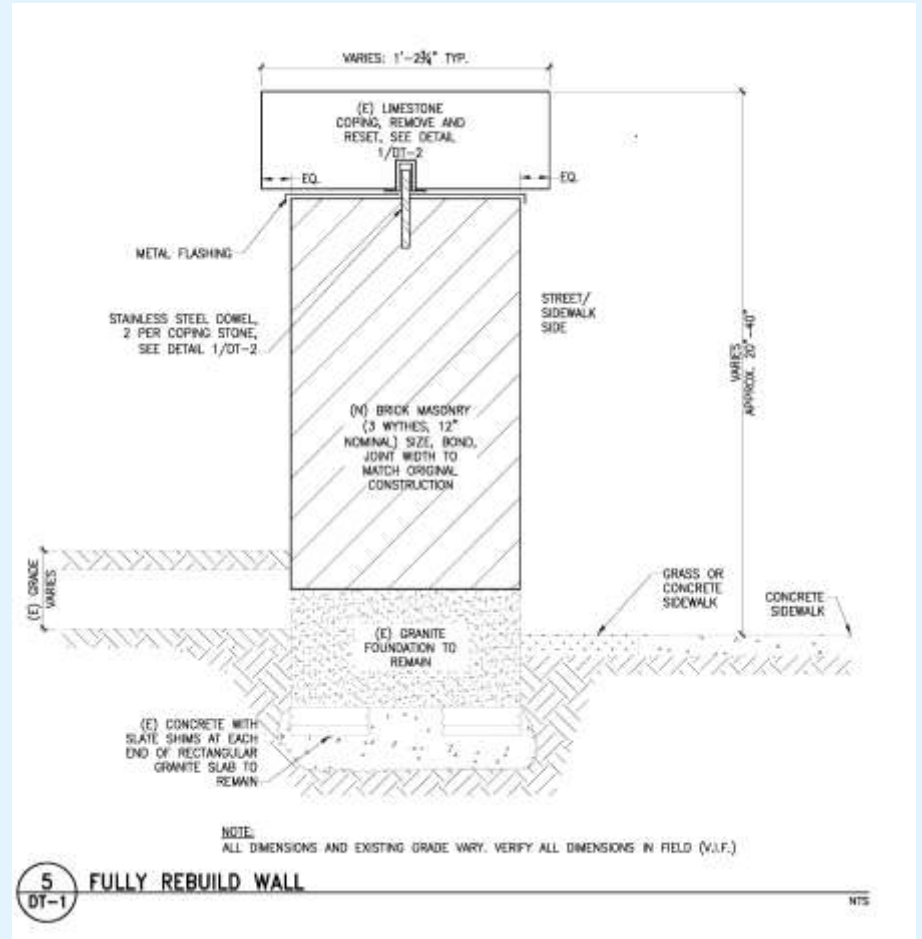
1. REMOVE EXISTING OUTER WYTHE OF MASONRY IN AREA OF SPALLED BRICK WITHOUT DAMAGING BRICK TO REMAIN.
2. REMOVE MORTAR FROM SECOND WYTHE OF BRICK AND POINT.
3. USING BRICK TO MATCH EXISTING BRICK, REBUILD OUTER WYTHE OF BRICK TO MATCH PATTERN AND COURSE OF ORIGINAL MASONRY.
4. TOOL JOINTS TO MATCH ORIGINAL MORTAR JOINTS.



TYPICAL SINGLE WYTHE BRICK REPLACEMENT

NTS

Full Rebuild



Stabilize Tree Cut Outs

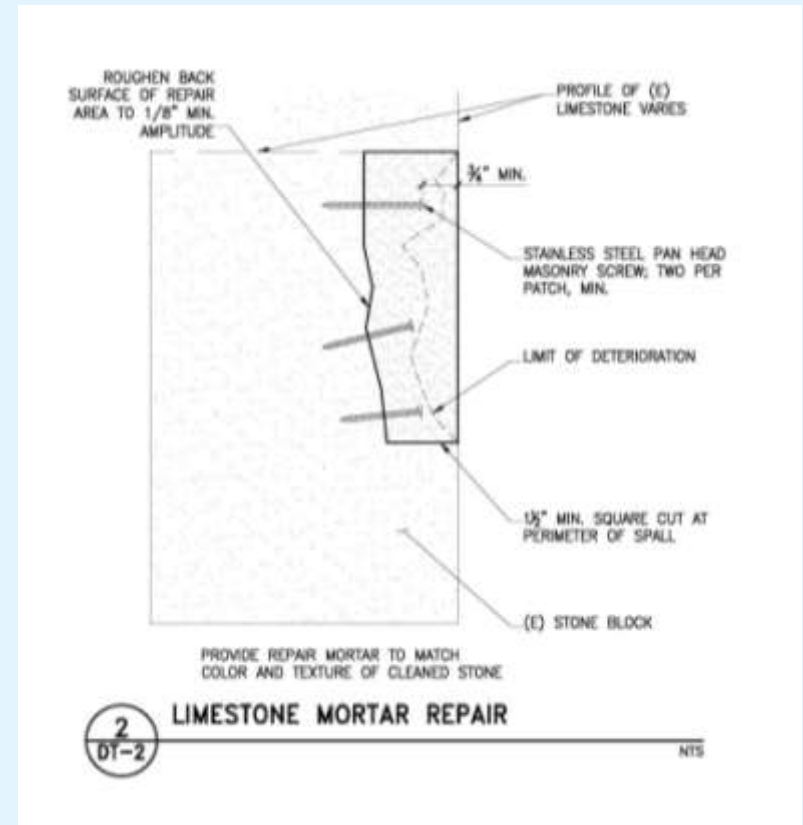


Fill, patch



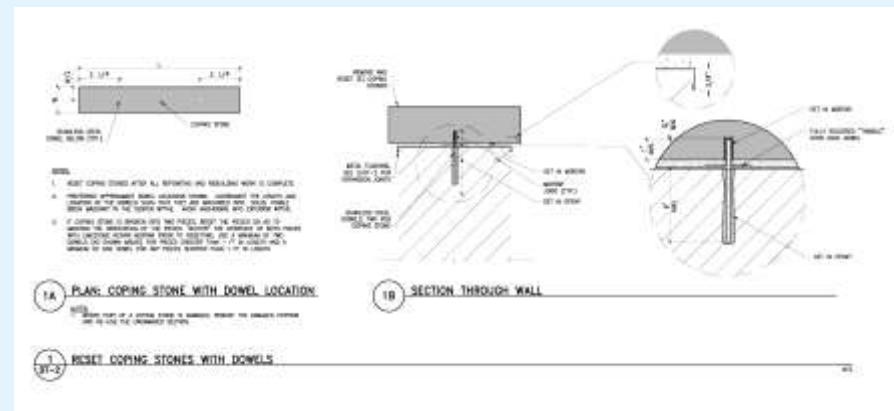
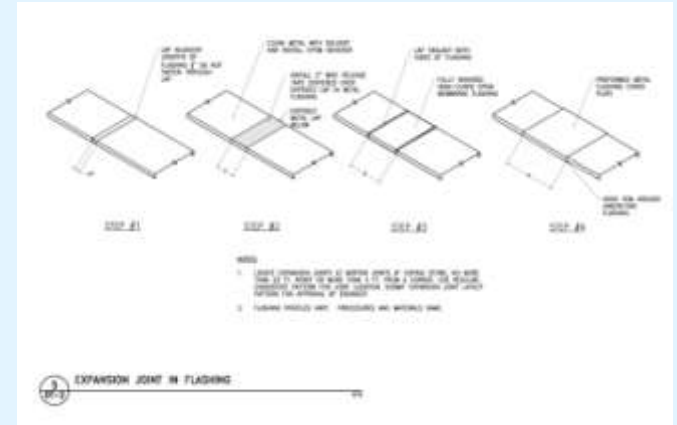
Stabilize, preserve

Repair Coping Stone

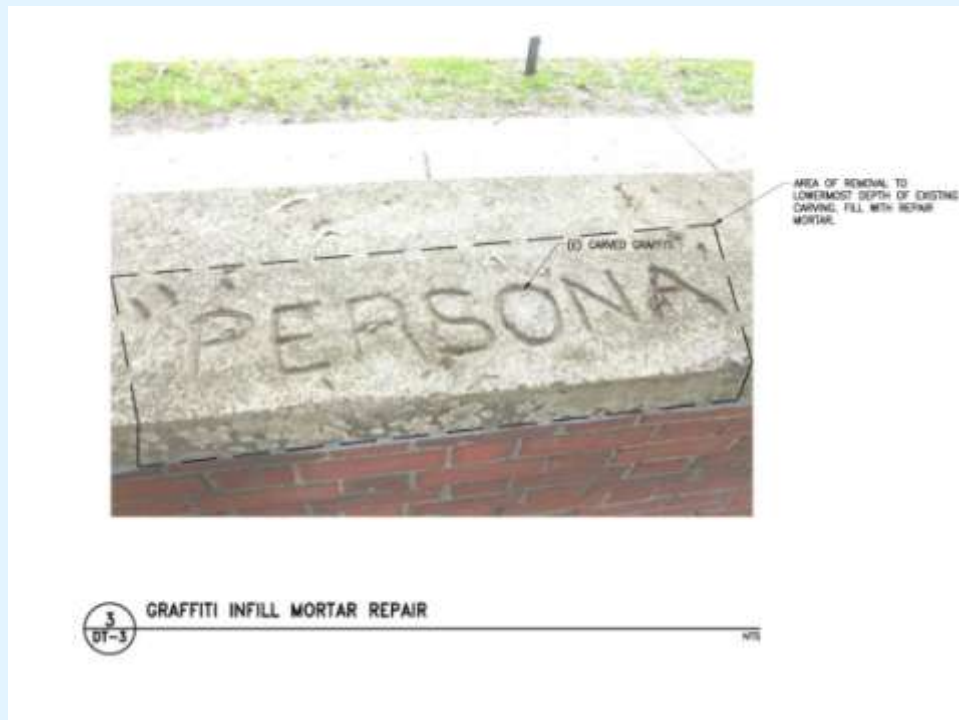


Repair limestone spalls

Reset Coping Stones



Remove Graffiti



Reset Dropped Foundation

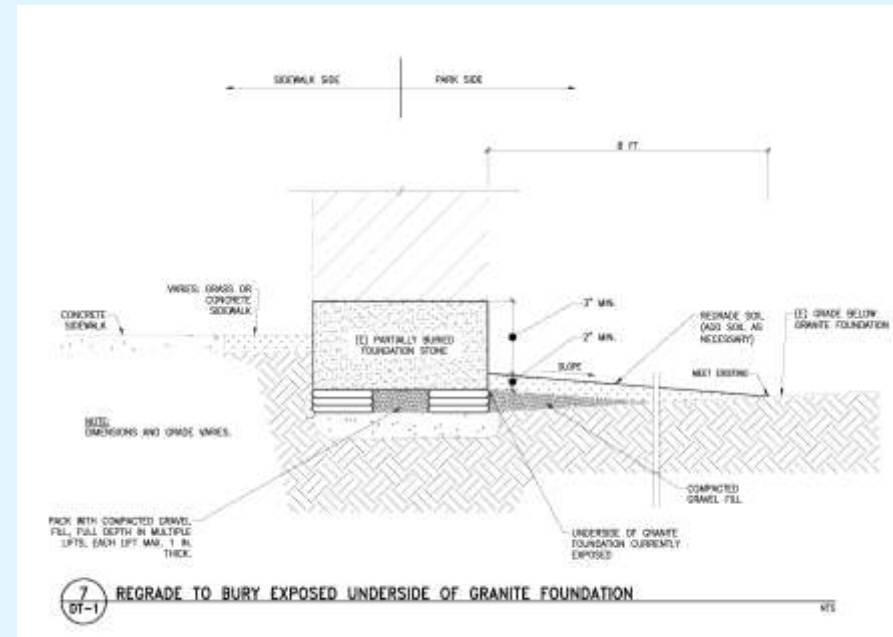


4
DT-2

RESET DROPPED GRANITE FOUNDATION STONE

NTS

Re-establish grade



Schedule

- MHC filing February 10, 2016
- Advertise Project March 2, 2016
- Pre Bid meeting March 16, 2016
- Bids due March 30, 2016
- DCR awards project May 15, 2016
- Construction start June 1, 2016
- Construction end September 15, 2016

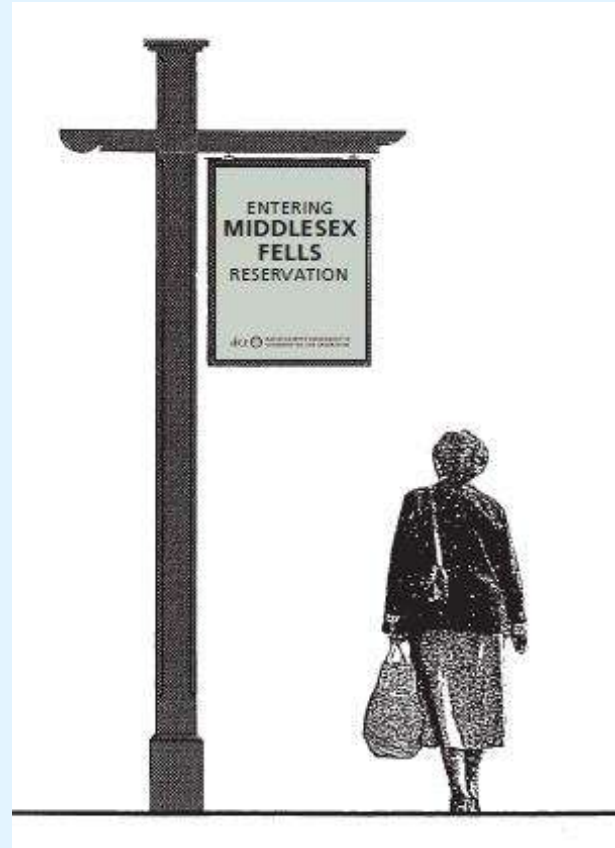
Impacts During Construction

- Northern part of park closed or partially closed during construction
- Possible pedestrian re-route on Brattle Street
- Laydown, storage and parking on site
- Noise: grinder to sawcut mortar
- Hours of work: 7am – 6pm weekdays
9am – 6pm weekends
- Standard dust control, site restoration
- Extra protection for Ancient maple

Coming soon



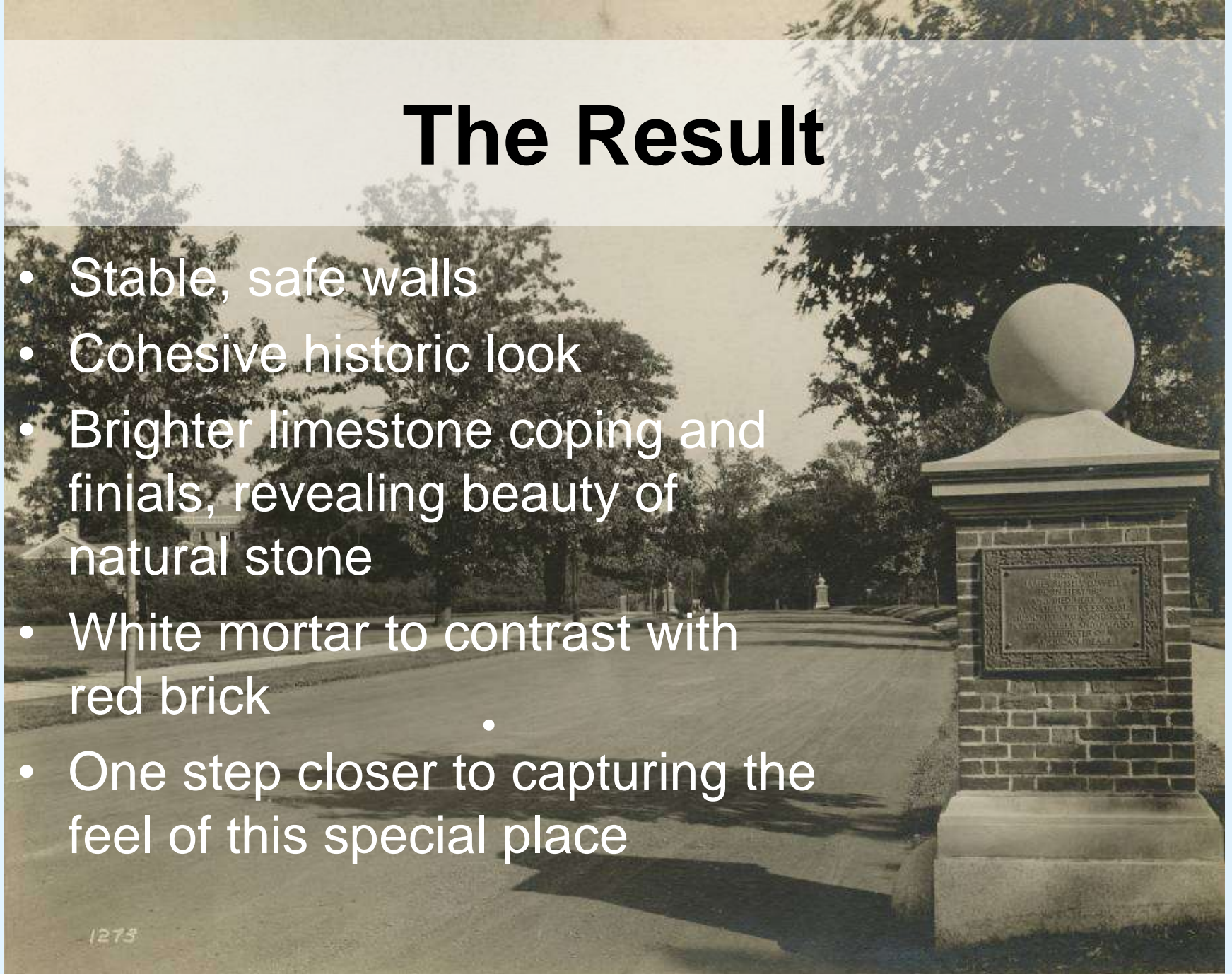
- Restore bronze plaques



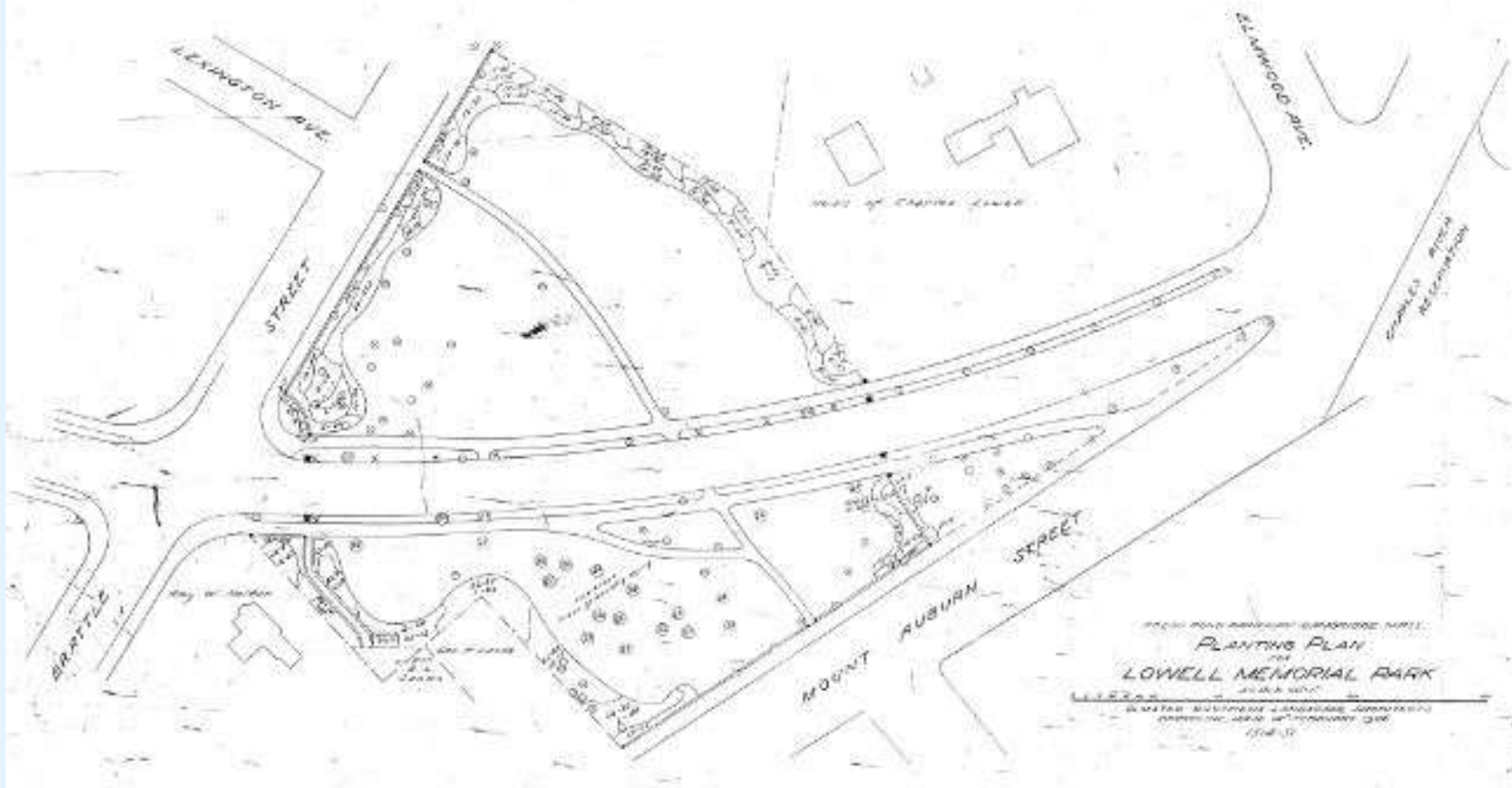
- Add park sign

The Result

- Stable, safe walls
- Cohesive historic look
- Brighter limestone coping and finials, revealing beauty of natural stone
- White mortar to contrast with red brick
- One step closer to capturing the feel of this special place



1906 Olmsted Plan as a Guide



Wall Repair Project

City of Cambridge

- | | |
|--|----------|
| • Community Preservation Act Committee | \$85,000 |
| • Cambridge Plant and Garden Club | \$ 5,000 |

Commonwealth of MA

- | | |
|-------------------------|----------|
| • DCR Partnership grant | \$90,000 |
|-------------------------|----------|

Total Budget	\$180,000
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Additional Information

For more information:

- Web: <http://www.mass.gov/eea/agencies/dcr/public-outreach/public-meetings/>
- Cultural Landscape Report posted here:
<http://www.mass.gov/eea/agencies/dcr/conservation/cultural-resources/>

If you would like to be added to an email list to receive DCR general announcements:

Email: MassParks@state.ma.us Call: 617-626-4973